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WATER SUPPLY OUTLOOK FOR ARIZONA

Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

SALT RIVER VALLEY WATER USERS ASSOCIATION

and

ARIZONA AGRICULTURAL EXPERIMENT STATION

Data included in this report were obtained by the agencies named above in cooperation with the Federal, State and private organizations listed on the last page of this report.

AS OF

FEB. 1, 1973

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia

U. S. DEPARTMENT of AGRICULTURE
CONSERVATION OF WATER BEGINS WITH THE SNOW SURVEY
SOIL CONSERVATION SERVICE

COVER PHOTO NUMBER ORC-280-4

USDA SCS PORTLAND OREG 1973

WATER SUPPLY OUTLOOK FOR ARIZONA

and

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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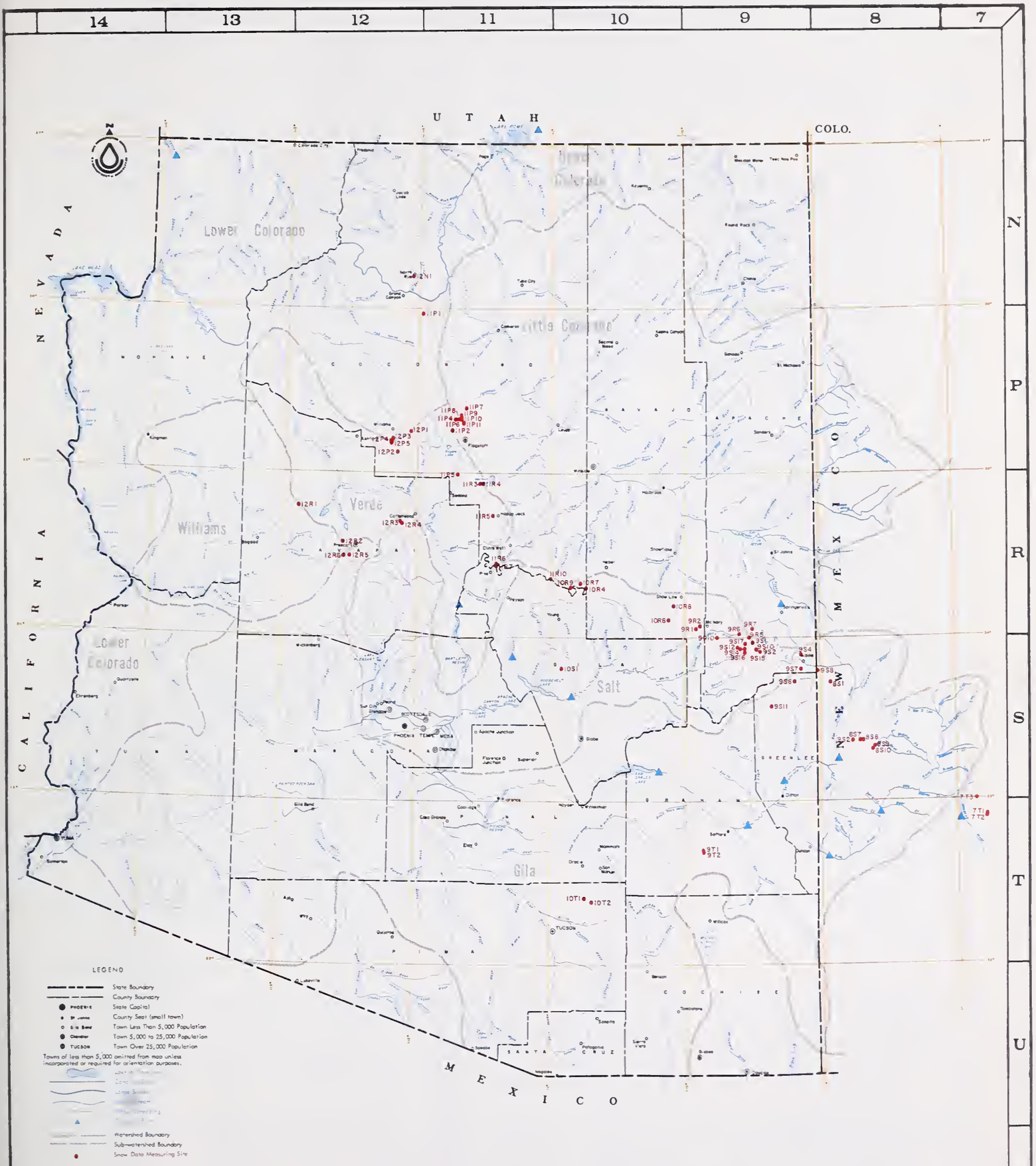


SNOW COURSES AND RELATED DATA MEASURING SITES
ARIZONA

1973

SCALE 1:3,800,000
ALBERS EQUAL AREA PROJECTION

USGS National Atlas 1:1,000,000 Albers Equal-Area projection (1967) used as source for base map and adapted for SCS use.

INDEX to SNOW COURSES and SOIL MOISTURE STATIONS

NUMBER	NAME	SEC.	TWP.	RGE.	ELEV.	DRAINAGE	OBSERVER	RECORD BEGAN
11P10A	Agassiz	32	23N	7E	11200	Little Colorado	SCS	1968
11R7	Baker Butte #2	9	12N	9E	7700	Verde	SCS	1971
11R6PSP	Baker Butte	4	12N	9E	7300	Verde	SCS	1966
9S1APSP	Baldy	28	7N	27E	9125	Little Colorado	SCS	1950
9S15	Baldy #2	12	6N	26E	9750	Little Colorado	SCS	1963
9S16	Baldy #3	13	6N	26E	10950	Little Colorado	SCS	1963
10T1	Bear Wallow	6	12S	16E	8100	Gila	FS	1948
9S6	Beaver Head	13	4N	30E	8000	San Francisco	FS	1938
12P5	Bill Williams Intermediate	17	21N	2E	8550	Cataract	FS	1967
12P4	Bill Williams Summit	17	21N	2E	8950	Verde	FS	1967
9S10m	Black River Divide	10	6N	27E	9400	Salt	SCS	1954
12N1	Bright Angel	34	33N	3E	8400	Bright Angel Creek	NPS	1947
12R1	Camp Wood	3	16N	6W	5700	Verde	FS	1946
10R7M	Canyon Creek #2	18	11N	15E	7500	Little Colorado	SCS	1958
10R9P	Canyon Point	28	11N	14E	7600	Salt	SCS	1967
12P1M	Chalender	27	22N	3E	7100	Verde	FS	1947
9R7	Cheese Springs	28	8N	27E	8600	Little Colorado	SCS	1969
12R6P	Copper Basin Divide	23	13N	3W	6720	Verde	SCS	1963
10R8m	Corduroy Creek	4	8N	21E	6000	Salt	SCS	1954
9S7	Coronado Trail	26	5N	30E	8000	San Francisco	FS	1938
9T2A	Crazy Horse	34	8S	24E	10200	Gila	FS	1963
11P11a	Doyle Saddle	4	22N	7E	10900	Little Colorado	SCS	1968
7T1	Emory Pass #1	16	16S	9W**	7800	Mimbres	SCS	1967
7T2	Emory Pass #2	16	16S	9W**	7800	Mimbres	SCS	1967
10R6	Forest Dale	2	9N	21E	6430	Salt	BIA	1939
9R5	Ft. Apache	18	7N	27E	9160	Little Colorado	SCS	1951
11P2P	Ft. Valley	22	22N	6E	7350	Little Colorado	FS	1947
8S1MP	Frisco Divide	31	6S	20W**	8000	San Francisco	FS	1938
12R4	Gaddes Canyon	11	15N	2E	7600	Verde	SCS	1954
11P1	Grand Canyon	21	30N	4E	7500	Hance Creek	NPS	1947
9S11P	Hannagan Meadows	19	3N	29E	9090	San Francisco	FS	1964
11R5P	Happy Jack	30	16N	9E	7630	Verde	FS	1951
9R10	Hawley Lake	13	7N	24E	8300	Salt	BIA	1966
10R4PSP	Heber	28	11N	15E	7600	Little Colorado	SCS	1950
9T1A	High Peak	34	8S	24E	10500	Gila	FS	1963
8S9A	Hummingbird	19	11S	17W**	10550	Gila	SCS	1964
11P9P	Inner Basin #1	28	23N	7E	10000	Little Colorado	SCS-USBR	1967
11P8P	Inner Basin #2	28	23N	7E	9750	Little Colorado	SCS-USBR	1967
11P7	Inner Basin #3	3	23N	7E	10250	Little Colorado	SCS-USBR	1967
12R2	Iron Springs	22	14N	3W	6200	Bill Williams	SCS	1946
9S2APSP	Maverick Fork	13	6N	27E	9150	Salt	SCS	1950
7S3A	McKnight Cabin	10	15S	10W**	9300	Mimbres	SCS	1967
9R2M	McNary	23	8N	23E	7200	Salt	BIA	1939
9R1	Milk Ranch	33	8N	23E	7000	Salt	BIA	1941
12R3	Mingus Mountain	3	15N	2E	7100	Verde	SCS	1947
8S2	Mogollon	2	11S	19W**	7000	San Francisco	SCS	1953
11R4	Mormon Lake	13	18N	8E	7350	Little Colorado	SCS	1947
11R3MAPSP	Mormon Mountain	14	18N	8E	7500	Verde	SCS	1950
9S12A	Mt. Ord	4	6N	26E	11200	Salt	SRP-SCS	1966
11P5M	Newman Park	25	19N	6E	6750	Verde	SCS	1963
9S4	Nutrioso	23	6N	30E	8500	San Francisco	FS	1938
11R10	Promontory Butte	5	11N	13E	7930	Little Colorado	SCS	1973
8S7	Redstone Trail	5	11S	18W**	8600	San Francisco	SCS	1961
10T2	Rose Canyon	15	12S	16E	7300	Gila	FS	1948
8S8P	Silver Creek Divide	4	11S	18W**	9000	San Francisco	SCS	1964
9S14A	Smith Cienega	10	6N	26E	10050	Salt	SRP-SCS	1966
11P4	Snow Bowl #1	36	23N	6E	10260	Verde	FS	1961
11P6	Snow Bowl #2	31	23N	7E	11000	Verde	FS	1965
9S8	State Line	6	6S	21W**	8000	San Francisco	FS	1938
9S17	Sunrise Summit	36	7N	26E	10600	Salt	FAIR-SCS	1972
12P2P	White Horse Lake Jct.	2	20N	2E	7180	Verde	FS	1967
12R5	White Spar	19	13N	2W	6000	Verde	SCS	1963
8S10A	Whitewater	19	11S	17W**	10750	Gila	SCS	1964
12P3	Williams Ski Run	9	21N	2E	7720	Cataract	FS	1967
9R6P	Wilson Lake	4	7N	26E	9000	Salt	SCS	1966
10S1P	Workman Creek	33	6N	14E	6900	Salt	FS	1952

A Aerial Snow Depth Marker — M Soil Moisture Station — P Precipitation Storage Gage — ** NM Principal Meridian

a Aerial Snow Depth Marker Only — m Soil Moisture Station Only — SP Snow Pressure Pillow

ARIZONA WATER SUPPLY OUTLOOK

FEBRUARY 1, 1973

The current water supply outlook is very good for all of Arizona. Storage is high and above average runoff is predicted on all streams.

SNOW COVER

No heavy snow falls have occurred since the January 15 survey, but cold temperatures and several light storms have increased the snow pack slightly. The Verde Watershed now contains twice average for this date, while the Salt and Gila are 38 and 17% above average respectively. Although most snow courses show slight increases, some melting has occurred at the lower elevations. The deepest snow, 76", was measured at 11,000' in the White Mountains, while the San Francisco Peaks and the Gila Mountains have 63" to 68" at comparable elevations.

PRECIPITATION

January precipitation has been below average just about everywhere except in the Flagstaff-Williams area. Over 4" was received at White Horse Lake Junction and at Mormon Mountain. Most other stations received less than 2". Many light storms crossed the state, but precipitation amounts were small.

SOIL MOISTURE

Surface soils are drying slightly at the lower elevations. Above 6000', however, watershed conditions are excellent and high runoff will result from moderate precipitation.

RESERVOIR STORAGE

Stored water in all major reservoirs is very good. Salt River Project reservoirs, presently containing 71% of capacity, are 44% above average. San Carlos contains 4 times average, although it is only at 43% of capacity. The Verde reservoirs have been lowered by the granting of no charge water, but inflow is expected to replace this amount in the next two months. No water is being diverted from the Salt side, as runoff is not expected to fill these reservoirs.

STREAMFLOW AND WATER SUPPLY

Streamflow decreased toward the end of January, due mainly to continuing cold weather. January-May streamflow forecasts are all above average, ranging from 10% to 30% above average. The Salt River Project is forecast to receive 477,000 acre-feet during the February-May period.

The Gila River at the head of the Safford Valley is forecast to produce 106,000 acre-feet, 112% of average. Above normal water supplies are thereby assured for the San Carlos Project. Areas receiving water by direct diversion, such as the Safford Valley, should also have adequate water supplies unless much below average precipitation occurs during the next three months.

STREAMFLOW FORECASTS ABOUT FEBRUARY 1, 1973

BASIN STREAM and/or FORECAST POINT	THIS YEAR FORECAST Thousand Acre Feet	THIS YEAR FORECAST Percent of Average	FORECAST PERIOD	PAST RECORD THOUSAND ACRE FEET Last Year	PAST RECORD THOUSAND ACRE FEET Average †
SALT RIVER DRAINAGE					
Salt near Roosevelt	330	117	Jan-May	112.5	280.9
Tonto Creek near Roosevelt	54	127	Jan-May	6.0	42.6
Verde River above Horseshoe	209	122	Jan-May	68.6	171.9
Total Salt River Project Streams	593	120	Jan-May	187.1	495.4
GILA RIVER DRAINAGE					
Gila River at Calva	85	109	Jan-May	33.4	78.2
Gila River near Gila	58	127	Jan-May	32.5	45.7
Gila River near Solomon	138	115	Jan-May	53.8	119.6
Gila River near Solomon	42	109	March	7.2	38.4
Gila River near Virden	70	118	Jan-May	36.4	59.3
Frisco River at Clifton	67	112	Jan-May	25.4	59.8
Frisco River at Glenwood	26	115	Jan-May	11.0	22.7
LITTLE COLORADO RIVER DRAINAGE					
Little Colo. River above Lyman Dam	12	133	Jan-June	4.6	9.0
GRANITE CREEK DRAINAGE					
Granite Creek	2.5	---	Jan-May	---	---
Willow Creek	1.0	---	Jan-May	---	---
MIMBRES RIVER DRAINAGE					
Mimbres River near Mimbres	3.7	112	Jan-May	2.9	3.3
VIRGIN RIVER DRAINAGE					
Virgin River nr. Littlefield	68	204	Apr-June	13.0	33.4

† Based on the 15-year period, 1953-67

+ 1953-1967 period.

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

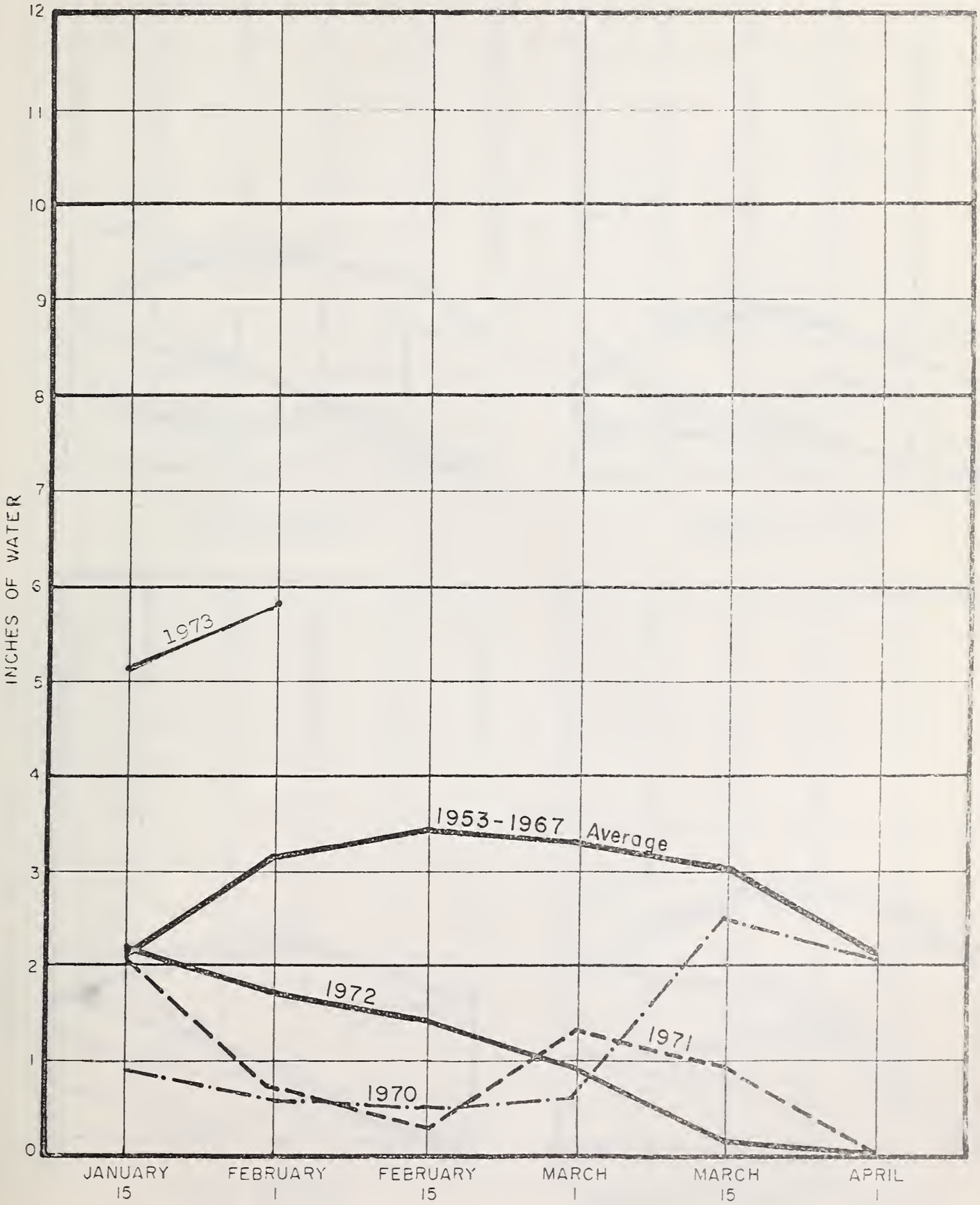
ABOUT FEBRUARY 1, 1973

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average†
GILA RIVER DRAINAGE					
Agua Fria	Lake Pleasant	157.6	70.8	55.5	41.0
Granite	Watson Lake	4.7	4.4	3.1	----
Granite	Willow Creek	6.1	5.9	1.7	----
Gila	San Carlos	948.6	410.3	134.1	98.8
Salt (4)	Roosevelt, Apache, Canyon and Saguaro	1755.0	1207.2	933.2	929.6
Verde (2)	Bartlett & Horseshoe	317.7	274.4	126.2	100.1
Salt and Verde	6 Salt River Project Reservoirs	2072.7	1481.6	1059.4	1029.7
COLORADO RIVER DRAINAGE					
Colorado	Lake Havasu	619.4	551.7	538.9	540.0
Colorado	Lake Mohave	1810.0	1615.3	1631.0	1674.6
Colorado	Lake Mead	26159.0	19209.0	17901.0	16599.8
Colorado	Lake Powell	25002.0	12238.0	12943.0	---
Little Colorado	Lyman	30.6	7.7	8.1	9.0
Little Colorado	Show Low Lake	5.1	1.5	4.6	1.3*

† Based on 15-year period, 1953-67
* Average is for less than 15 years of record

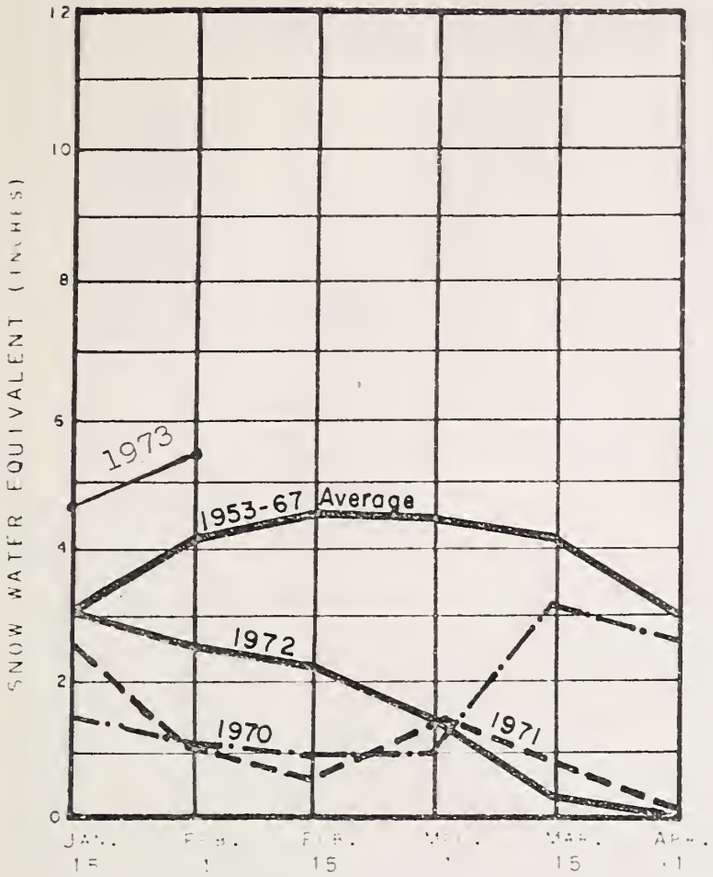
† 1953-1967 period.

RELATIVE SNOW WATER ACCUMULATION
ARIZONA
1973

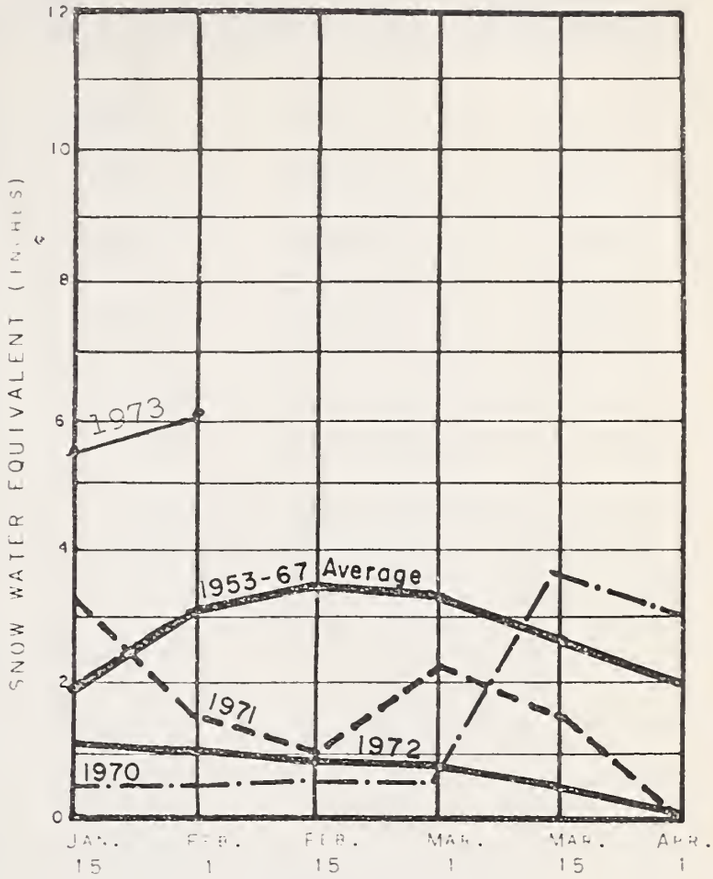


This graph represents the average snow water content on eleven selected snow courses on Arizona Sub-Watersheds.

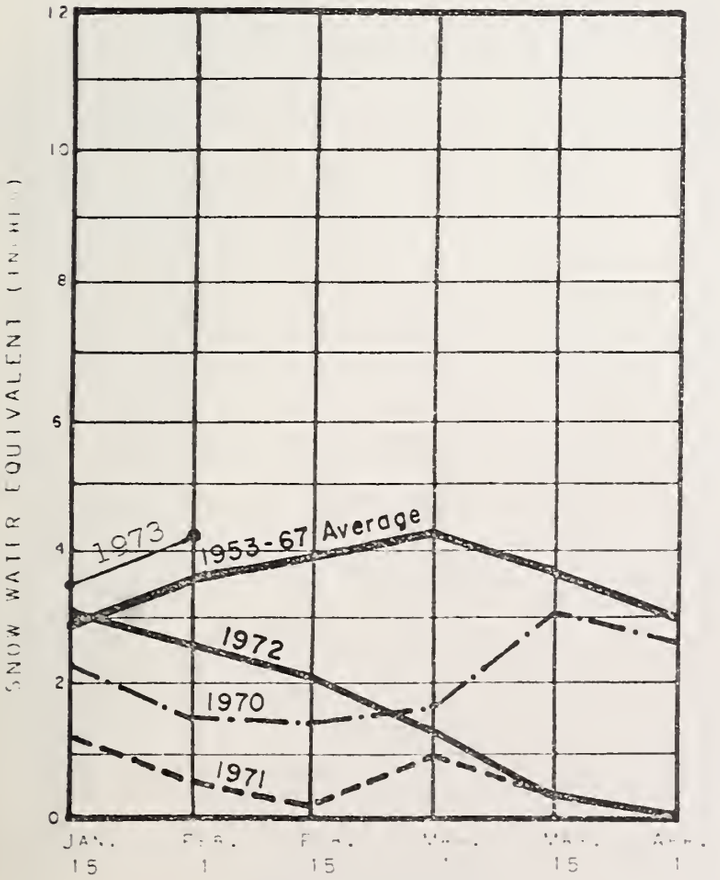
1973
ARIZONA SNOW COVER
BY WATERSHEDS



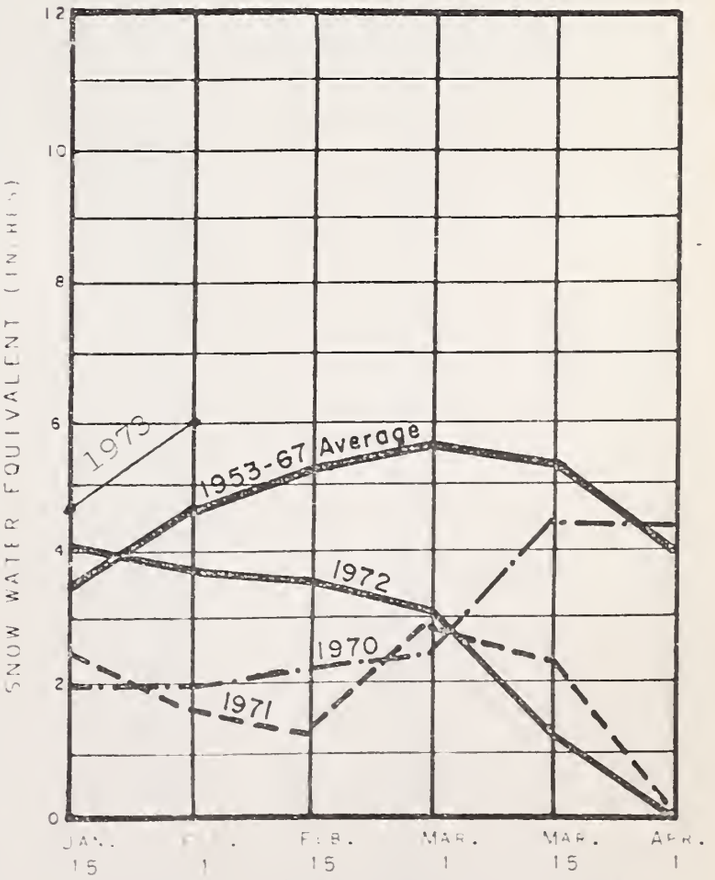
SALT RIVER



VERDE RIVER



GILA RIVER



LITTLE COLORADO RIVER

BASED ON SELECTED SNOW SURVEY COURSES

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS) ABOUT FEBRUARY 1, 1973

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF:	
		Last Year	Average
Gila	10	157	117
Salt	10	206	138
Verde	10	588	203
Little Colorado	5	154	135

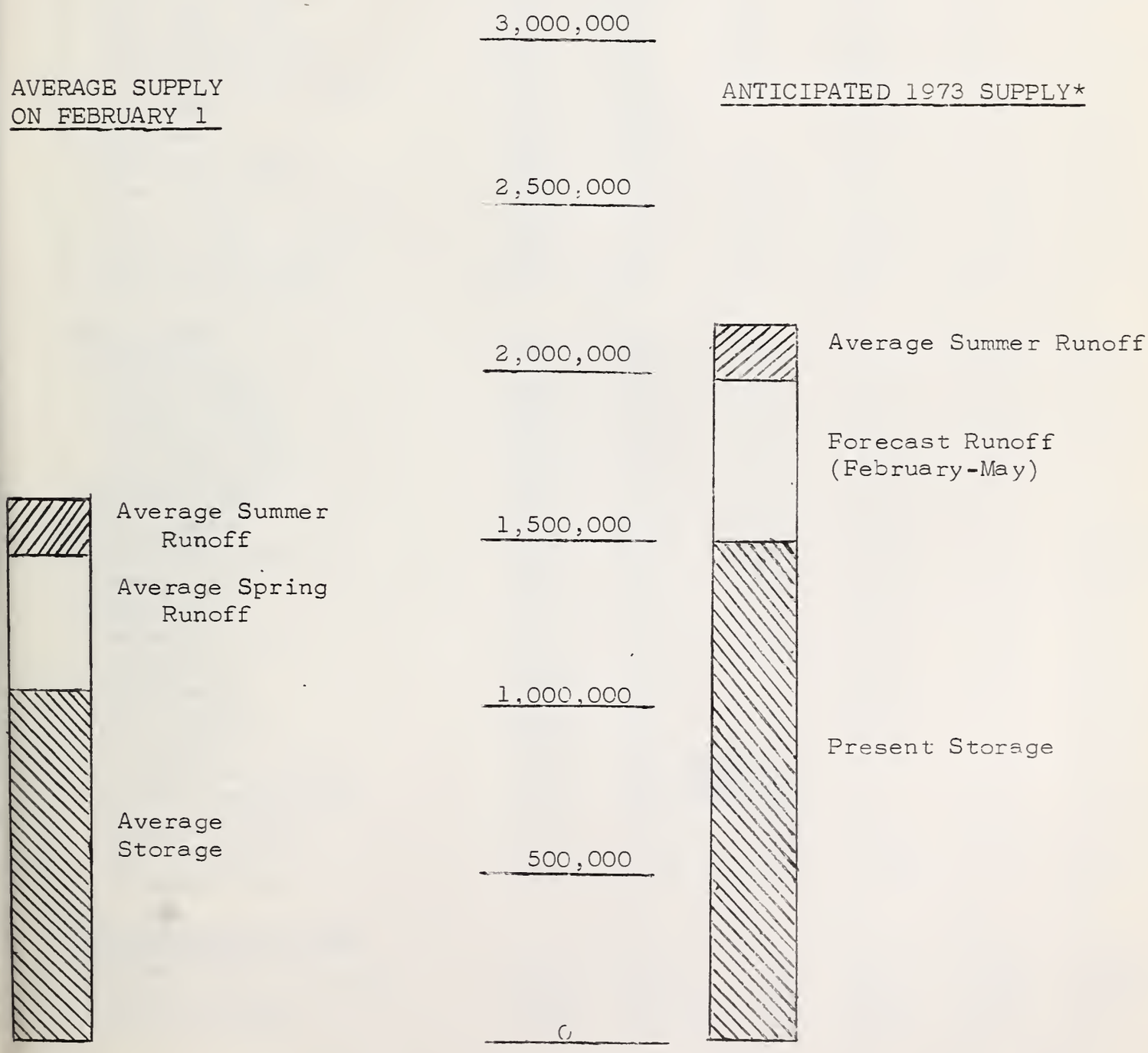
+ 1953-1967 period.

WATER SUPPLY INVENTORY

SALT RIVER VALLEY SYSTEM

FEBRUARY 1, 1973

IN ACRE-FEET



Based on Present Storage + Forecast Spring Runoff + Average Summer Runoff

SNOW ABOUT FEBRUARY 1, 1973

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average +
GILA RIVER						
Bear Wallow	8100	1/31	4	1.3	0.0	4.5
Beaver Head	8000	1/31	12	3.0	1.7	2.6
Coronado Trail	8000	1/30	10	2.8	1.1	2.2
Crazy Horse (A)	10200	---	---	---	---	---
Emory Pass #1 *	7800	1/29	4	0.7	0.0	---
Emory Pass #2 *	7800	1/29	4	1.2	0.7	---
Frisco Divide	8000	1/31	9	2.5	1.9	2.1
Hannagan Meadows *	9090	1/31	41	9.8	6.7	6.9**
High Peak (A)	10500	---	---	---	---	---
Hummingbird (A)	10550	2/5	58	14.4	12.5	9.7**
McKnight Cabin (A) *	9300	2/5	18	4.0	4.0	---
Mogollon	7000	1/29	2	0.6	0.0	1.4
Nutrioso	8500	1/30	7	2.2	1.1	1.8
Redstone Trail	8600	1/29	23	6.6	4.3	6.8**
Rose Canyon	7300	1/31	5	1.1	0.0	2.9
Silver Creek Divide	9000	1/29	35	9.9	7.0	7.9**
State Line	8000	1/31	13	3.4	1.9	2.4
Whitewater (A)	10750	2/4	68	16.3	19.2	11.3**
SALT RIVER						
Baldy *	9125	1/30	30	6.7	4.6	5.5
Beaver Head	8000	1/31	12	3.0	1.7	2.6
Canyon Creek	7500	1/30	18	5.6	0.5	2.9**
Canyon Point	7600	1/30	21	6.3	0.0	3.1**
Coronado Trail	8000	1/30	10	2.8	1.1	2.2
Forest Dale	6430	1/31	11	2.6	0.0	1.2
Ft. Apache	9160	1/30	36	7.0	5.6	5.8
Hannagan Meadows	9090	1/31	41	9.8	6.7	6.9**
Hawley Lake	8300	1/31	34	7.9	2.6	5.1**
Heber	7600	1/30	19	6.0	0.4	2.9
Maverick Fork	9050	1/31	36	7.1	5.6	6.4
McNary	7200	1/31	17	4.6	0.3	2.1
Milk Ranch	7000	1/31	9	2.0	0.0	1.7
Mt. Ord (A)	11000	2/5	76	19.7	---	13.4**
Nutrioso *	8500	1/30	7	2.2	1.1	1.8
Promontory Butte	7930	NOT MEASURED			---	---
Smith Cienega (A)	9850	NOT MEASURED			---	9.8**
Sunrise Summit	10600	1/30	44	12.5	12.7	---
Wilson Lake	9000	1/31	42	9.2	7.6	6.8**
Workman Creek	6900	1/30	22	6.8	0.9	4.3
BILL WILLIAMS RIVER						
Camp Wood *	5700	1/30	2	0.5	0.0	0.8
Copper Basin Divide	6720	1/31	8	2.7	0.0	1.3**
Iron Springs	6200	1/31	1	0.4	0.0	1.1

+ 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67 Adjusted Average. (A) Aerial observation: Water content estimated.

+ 1953-1967 period.

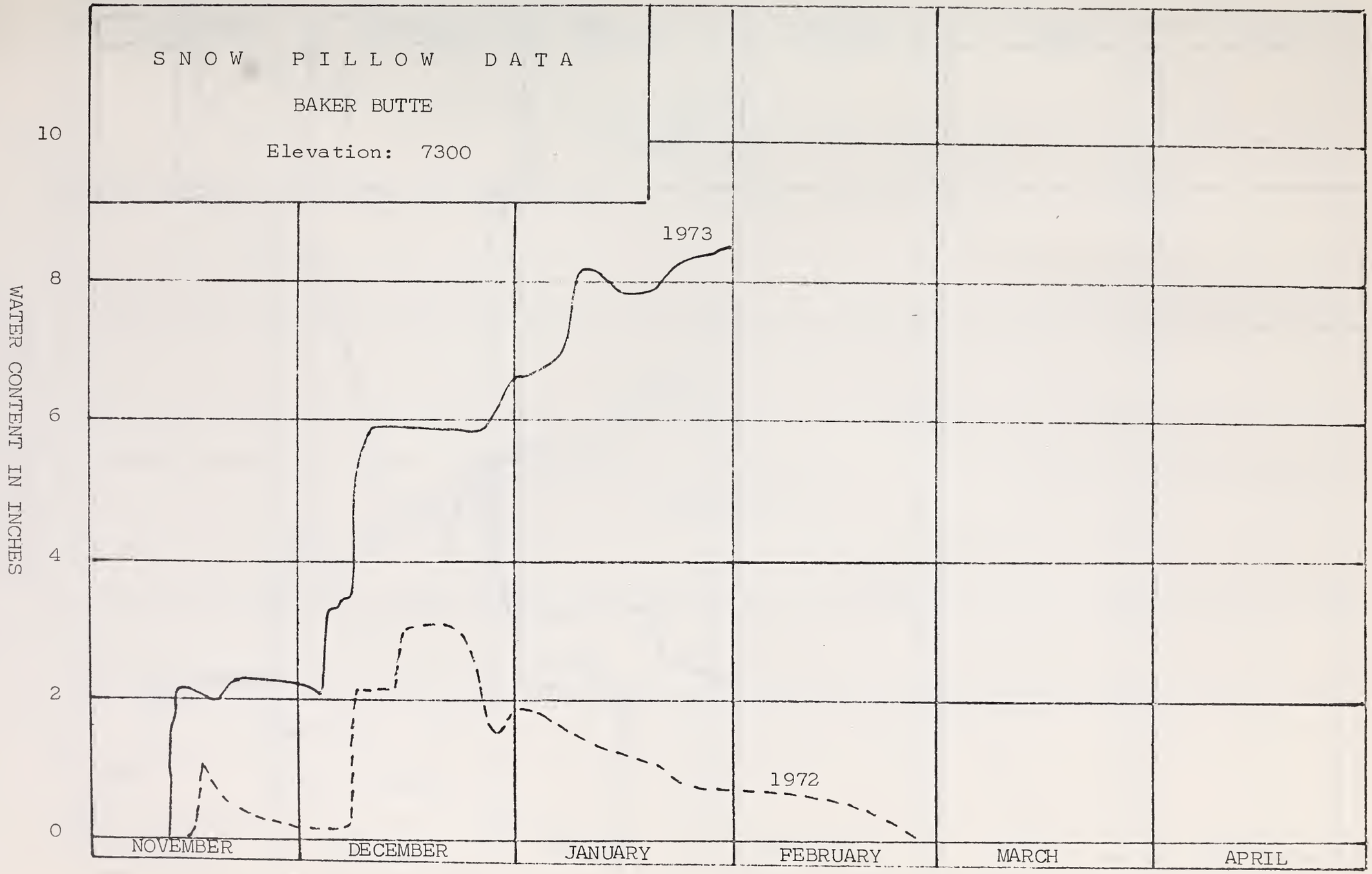
USDA SCS-PORTLAND, OREG. 1973 M7-1-22021C

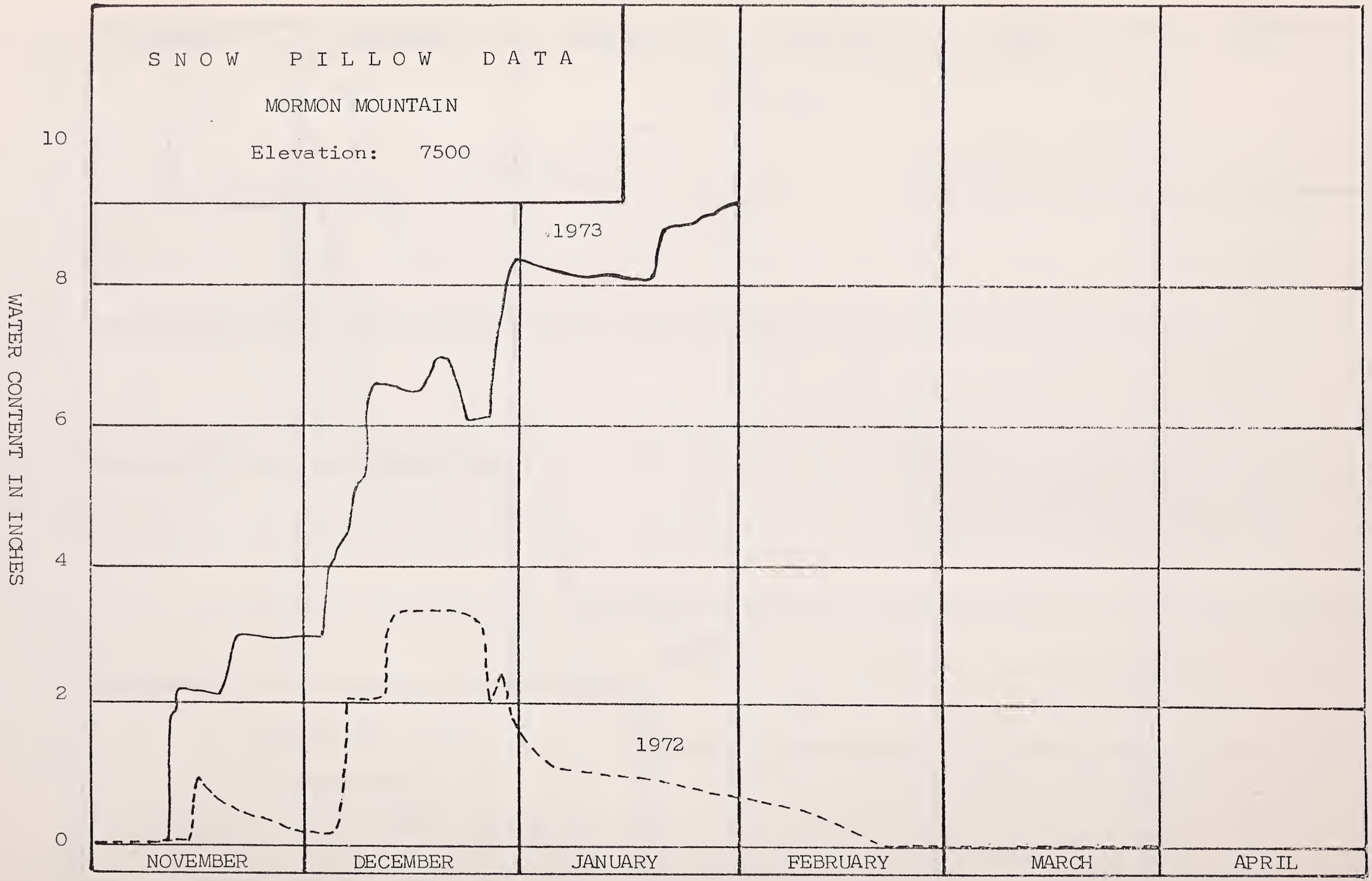
SNOW ABOUT FEBRUARY 1, 1973

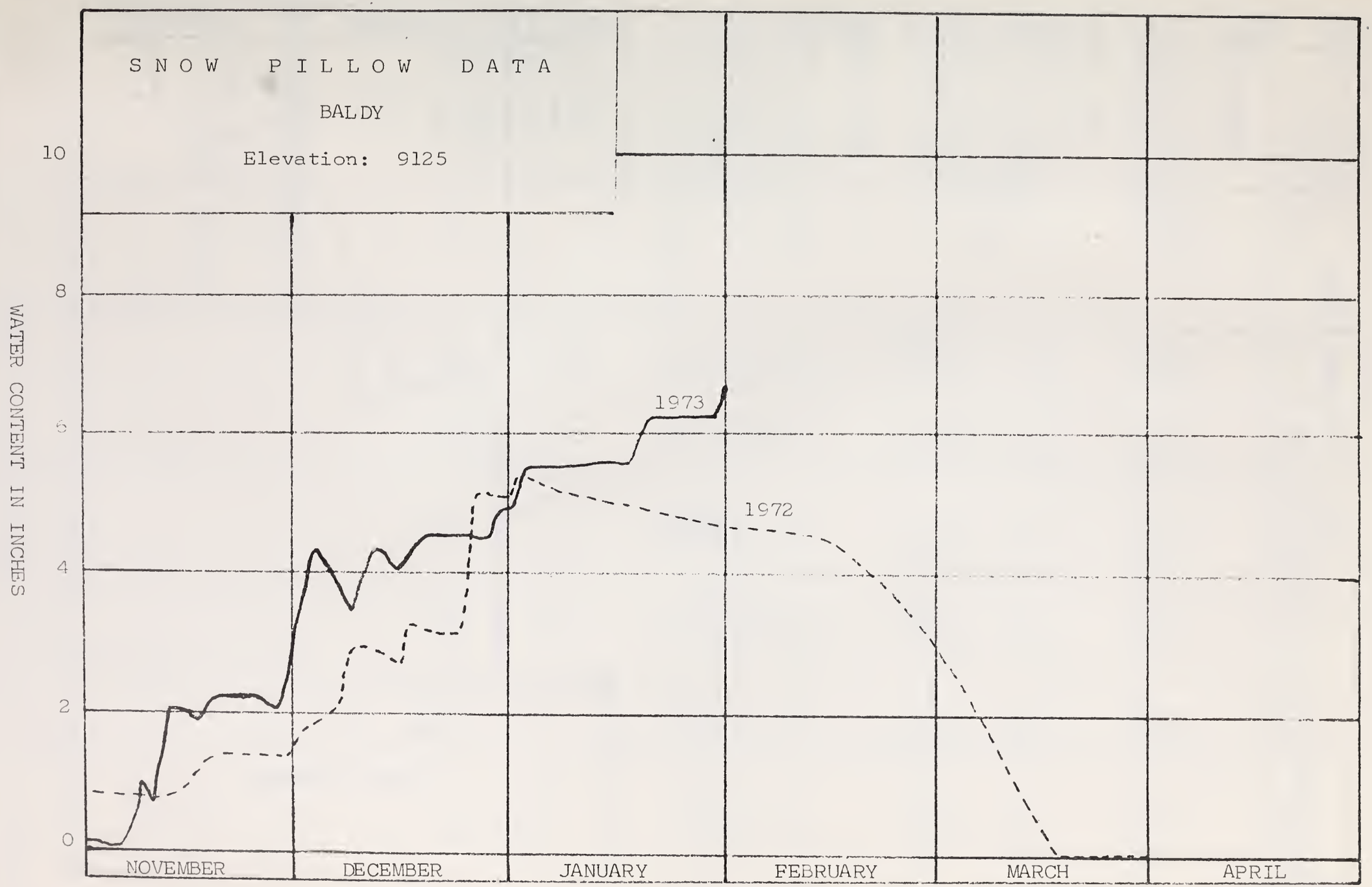
DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
					Water Content (inches)	
NAME	Elevation	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Last Year	Average †
VERDE RIVER						
Baker Butte	7300	1/30	26	8.1	2.0	4.7**
Baker Butte #2	7700	1/30	40	12.6	4.6	---
Camp Wood	5700	1/30	2	0.5	0.0	0.8
Chalender	7100	1/30	18	4.9	0.3	2.3
Copper Basin Divide	6720	1/31	8	2.7	0.0	1.3**
Fort Valley	7350	1/30	13	3.6	0.0	1.6
Gaddes Canyon	7600	1/30	22	6.3	0.3	3.2**
Happy Jack	7630	1/31	25	7.2	0.0	2.3
Iron Springs *	6200	1/31	1	0.4	0.0	1.1
Mingus Mountain	7100	1/30	2	0.4	0.0	0.9
Mormon Lake *	7350	1/30	27	7.9	0.0	3.2
Mormon Mountain	7500	1/30	30	9.2	0.7	3.8
Newman Park	6750	1/31	16	5.3	0.0	1.9**
Snow Bowl #1	10260	1/30	41	10.3	7.0	7.1**
Snow Bowl #2	11000	1/30	63	15.8	13.1	11.4**
White Horse Lake Jct.	7150	1/31	17	5.3	0.0	---
White Spar	6000	1/31	1	0.3	0.0	1.1**
LOWER COLORADO RIVER						
Bill Williams Int.	8550	1/31	41	12.0	2.6	---
Bill Williams Summit	8950	1/31	45	13.4	4.9	---
Bright Angel	8400	1/30	41	12.6	---	---
Chalender *	7100	1/30	18	4.9	0.3	2.3
Fort Valley	7350	1/30	13	3.6	0.0	1.6
Grand Canyon	7500	1/30	21	7.0	0.0	1.8
Williams Ski Run	7720	1/31	36	10.7	1.7	---
LITTLE COLORADO RIVER						
Agassiz	11200	DELAYED			14.0	---
Baldy	9125	1/30	30	6.7	4.6	5.5
Canyon Creek	7500	1/30	18	5.6	0.5	2.9**
Canyon Point	7600	1/30	21	6.3	0.0	3.1**
Cheese Springs	8600	1/31	27	6.1	4.5	---
Doyle Saddle	10900	DELAYED			---	---
Forest Dale	6430	1/31	11	2.6	0.0	1.2
Ft. Apache	9160	1/30	36	7.0	5.6	5.8
Fort Valley	7350	1/30	13	3.6	0.0	1.6
Happy Jack *	7630	1/31	25	7.2	0.0	2.3
Heber	7600	1/30	19	6.0	0.4	2.9
Inner Basin #1	10100	DELAYED			13.3	---
Inner Basin #2	9750	DELAYED			9.0	---
Inner Basin #3	10250	DISCONTINUED			7.3	---
McNary	7200	1/31	17	4.6	0.3	2.1
Mormon Lake	7350	1/30	27	7.9	0.0	3.2
Mormon Mountain	7500	1/30	30	9.2	0.7	3.8
Nutrioso	8500	1/30	7	2.2	1.1	1.8
Promontory Butte	7930	NOT MEASURED			---	---
Snow Bowl #1	10260	1/30	41	10.3	7.0	7.1**
Snow Bowl #2	11000	1/30	63	15.8	13.1	11.4**
Wilson Lake *	9000	1/31	42	9.2	7.6	6.8**

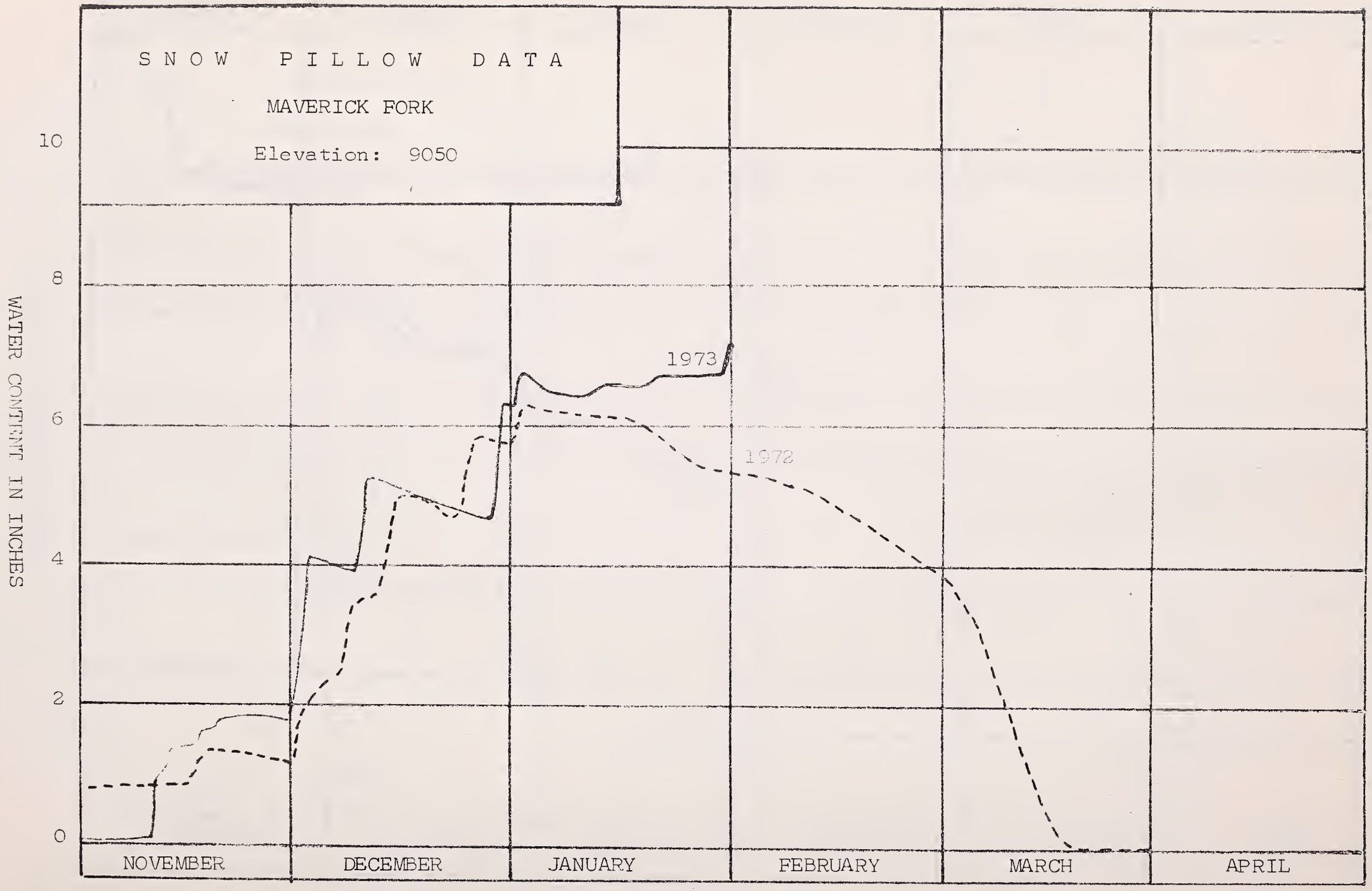
† 1953-67 15-year period. (*) Adjacent drainage. (**) 1953-67 Adjusted Average. (A) Aerial observation: Water content estimated.

* 1953-1967 period.


SNOW PILLOW DATA
BAKER BUTTE
Elevation: 7300
WATER CONTENT IN INCHES
10
8
6
4
2
0
1973
1972
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL


SNOW PILLOW DATA
MORMON MOUNTAIN
Elevation: 7500
1973
1972
WATER CONTENT IN INCHES
10
8
6
4
2
0
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL


SNOW PILLOW DATA
BALDY
Elevation: 9125
WATER CONTENT IN INCHES
10
8
6
4
2
0
1973
1972
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL


SNOW PILLOW DATA
MAVERICK FORK
Elevation: 9050
WATER CONTENT IN INCHES
10
8
6
4
2
0
1973
1972
NOVEMBER
DECEMBER
JANUARY
FEBRUARY
MARCH
APRIL

PRECIPITATION (Inches) ABOUT FEBRUARY 1, 1973

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. NOV. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
GILA RIVER							
Silver Creek Divide	9000	1/29	3.20	----	9.54	---	---
Hannagan Meadows **	9030	1/31	3.40	2.67*	9.68	7.90*	123
Frisco Divide **	8000	1/31	.76	----	3.91	---	---
SALT RIVER							
Canyon Point	7600	1/30	1.95	3.98*	12.70	10.39*	122
Hannagan Meadows **	9030	1/31	3.40	2.67*	9.68	7.90*	123
Little Wildcat (Heber Snow Course)	7600	1/30	1.97	3.54*	10.90	9.07*	120
Maverick Fork	9050	1/31	2.44	2.59*	7.94	7.69*	103
Workman Creek **	6970	1/30	1.30	4.29	11.76	11.04	107
Wilson Lake	9100	1/31	1.88	----	7.80	----	---
VERDE RIVER							
Baker Butte	7300	1/30	2.32	4.30*	12.16	11.46*	106
Copper Basin Divide	6720	1/31	1.80	2.09*	9.39	6.79*	138
Fort Valley **	7350	1/30	1.87	1.95	6.53	5.60	117
Happy Jack **	7480	1/31	1.64	2.60*	8.74	6.72*	130
Mingus Mountain	7660	1/30	1.57	2.00	8.57	5.72	150
Mormon Mountain	7500	1/30	4.15	3.00*	14.03	10.01*	140
White Horse Lake Jct.**	7150	1/31	4.54	----	10.22	---	---
LITTLE COLORADO							
Inner Basin #1	9830	D E L A Y E D		----	---	---	---
Inner Basin #2	10050	D E L A Y E D		----	---	---	---
Sheep Crossing (Baldy Snow Course)	9125	1/30	2.61	2.93*	8.31	7.43*	112
Little Wildcat (Heber Snow Course)	7600	1/30	1.97	3.54*	10.90	9.07*	120
Greer Lakes	8500	1/31	.92	----	3.57	---	---

† 1953-67 Average
* Adjusted Average

** Data Supplied by U.S. Forest Service

+ 1953-1967 period.

SOIL MOISTURE ABOUT FEBRUARY 1, 1973

DRAINAGE BASIN and/or STATION		Profile (Inches)		Date of Survey	Soil Moisture (Inches)		
Name	Elevation	Depth	Capacity		This Year	Last Year	Average +
GILA RIVER							
Frisco Divide	8000	48	13.3	1/31	14.3	10.6	10.0
SALT RIVER							
Black River Divide	9100	48	16.8	1/30	17.9	17.8	15.4
Canyon Creek	7500	48	18.3	1/30	17.4	17.8	15.1
Corduroy Creek	6000	36	13.5	1/31	13.6	12.8	8.1
McNary	7200	48	16.3	1/30	17.9	17.7	14.6
VERDE RIVER							
Mormon Mountain	7500	48	16.1	1/30	18.7	17.5	14.9
Newman Park	6750	48	17.7	1/31	19.5	16.2	14.7

+ 1953-67 15-year average

+ 1953-1967 period.

The Following Organizations Cooperate in the Arizona Snow Survey Work

FEDERAL

- Department of Agriculture
  - Soil Conservation Service
  - Forest Service
    - Apache Forest
    - Coconino Forest
    - Coronado Forest
    - Gila Forest
    - Kaibab Forest
    - Prescott Forest
    - Rocky Mountain Forest and Range Experiment Station
    - Tonto Forest
- Department Of Commerce
  - NOAA, National Weather Service
- Department of Interior
  - Bureau of Reclamation
    - Region III
  - Geological Survey
    - Arizona District
  - Bureau of Indian Affairs
    - Fort Apache Reservation
    - San Carlos Irrigation Project
  - National Park Service
    - Grand Canyon National Park
- Gila Water Commissioner
  - Safford, Arizona

STATE

- Arizona Game and Fish Department
- Arizona State Parks Board
- University of Arizona
  - Arizona Agricultural Experiment Station
  - Water Resource Research Center

IRRIGATION PROJECTS

- Salt River Valley Water User's Association
  - Phoenix, Arizona
- San Carlos Irrigation and Drainage District
  - Coolidge, Arizona

PRIVATE

- Southwest Forest Industries, Inc.
  - McNary, Arizona
- Fort Apache Indian Reservation
  - White Mountain Recreation Enterprises

Other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

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SOIL CONSERVATION SERVICE
ROOM 6029 FEDERAL BUILDING
PHOENIX, ARIZONA 85025

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"The Conservation of Water begins with the Snow Survey"